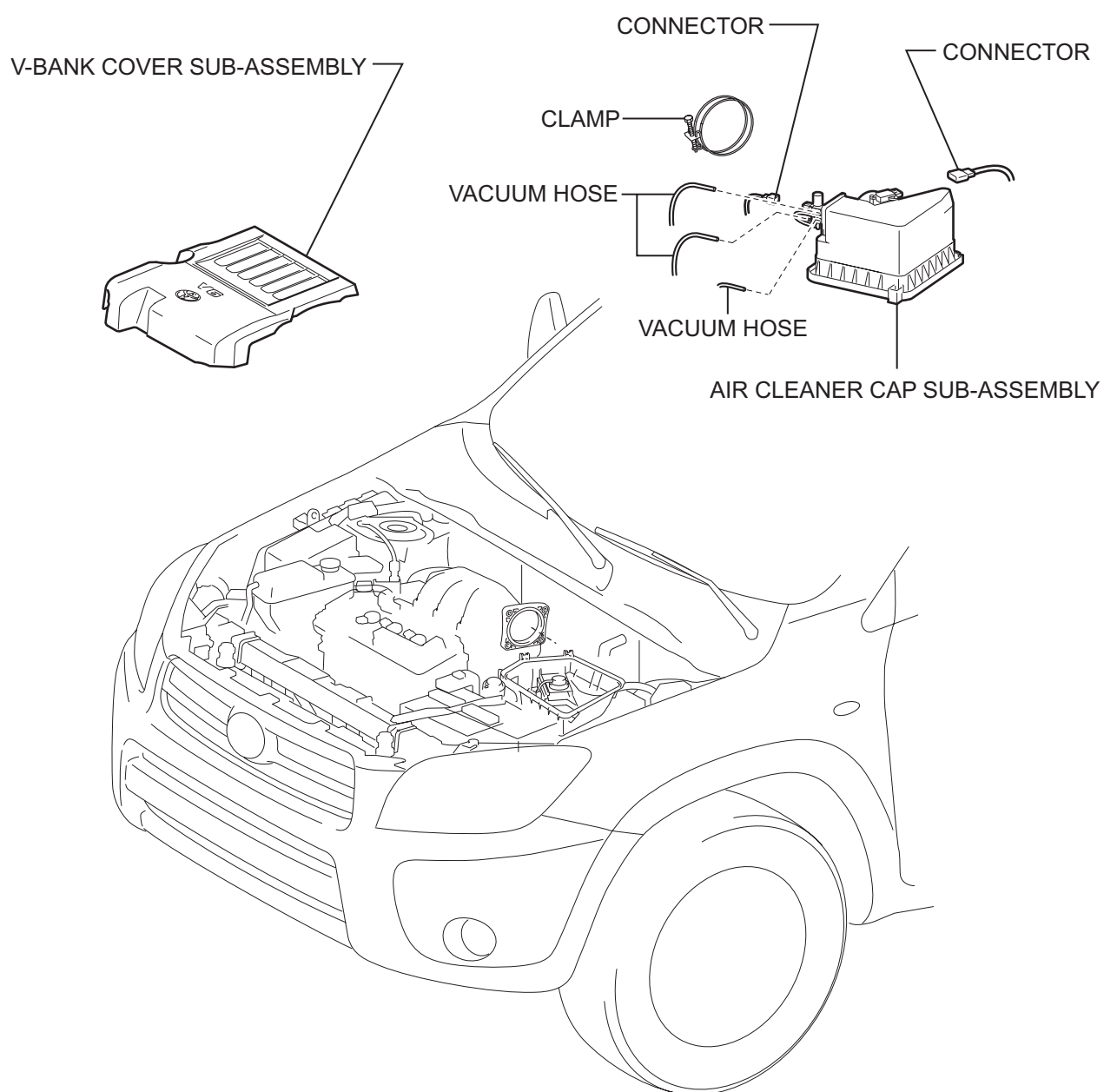
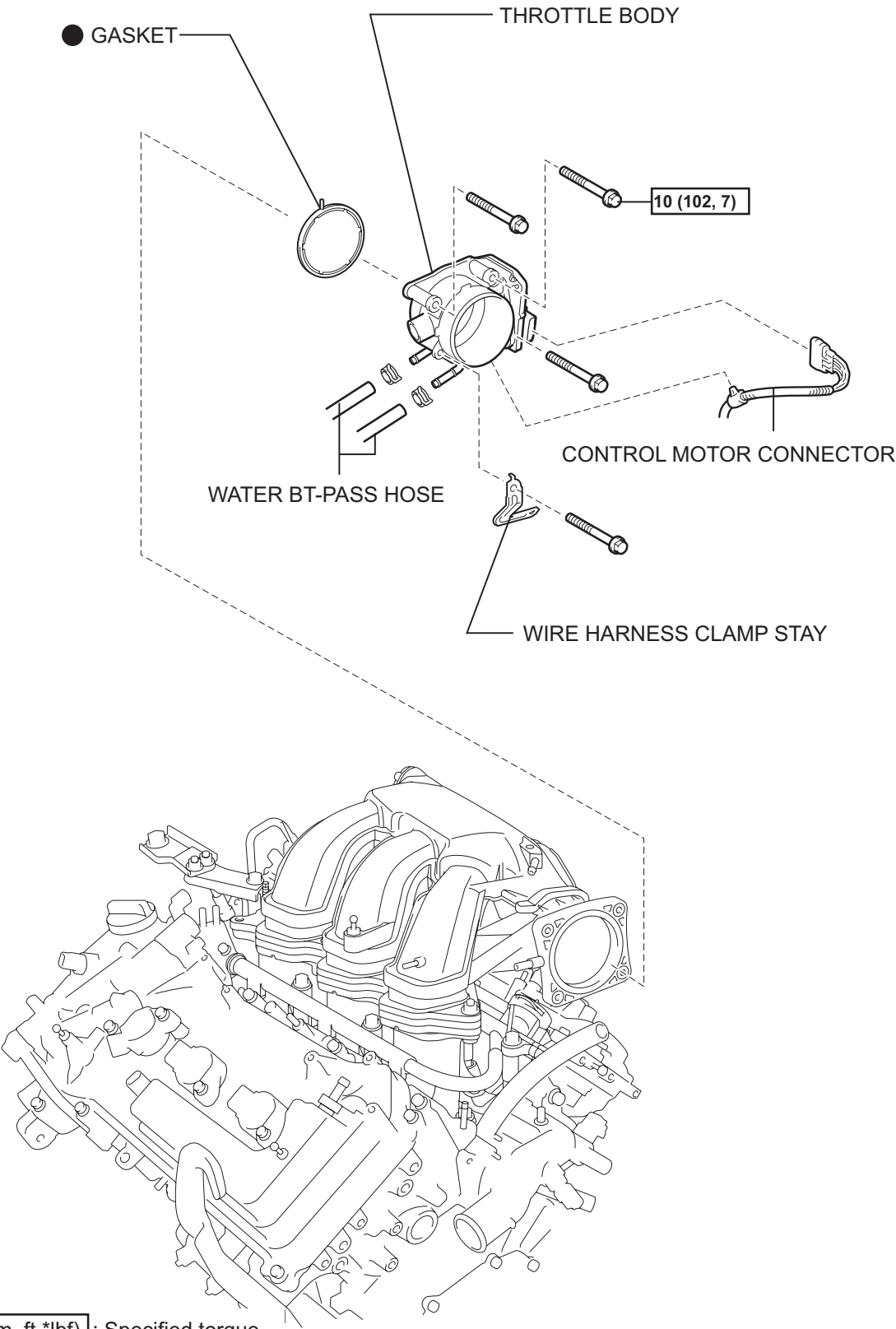


THROTTLE BODY COMPONENTS



ES

ES



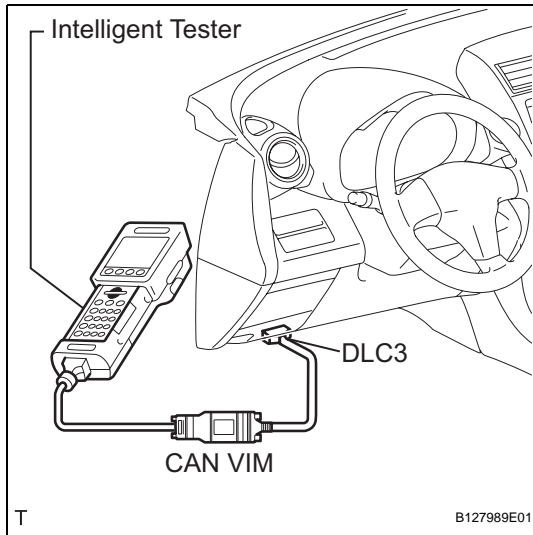
N*m (kgf*cm, ft.*lbf) : Specified torque

● Non-reusable part

ON-VEHICLE INSPECTION

1. CHECK THROTTLE BODY

- (a) Check the throttle control motor operating sounds.
 - (1) Turn the ignition switch ON.
 - (2) When pressing the accelerator pedal, check the operating sound of the running motor. Make sure that no friction noises emit from the motor. If friction noise exists, replace the throttle body.



- (b) Check the throttle position sensor.
 - (1) Connect the intelligent tester to the DLC3.
 - (2) Turn the ignition switch ON.
 - (3) Push the intelligent tester main switch ON.
 - (4) Enter the following menus: DIAGNOSIS / ENHANCED OBD II / DATA LIST / THROTTLE POS.
 - (5) Depress the accelerator pedal. When the throttle valve is fully opened, check that the value of "THROTTLE POS" is within the specification.

Standard throttle valve opening percentage:

60% or more

NOTICE:

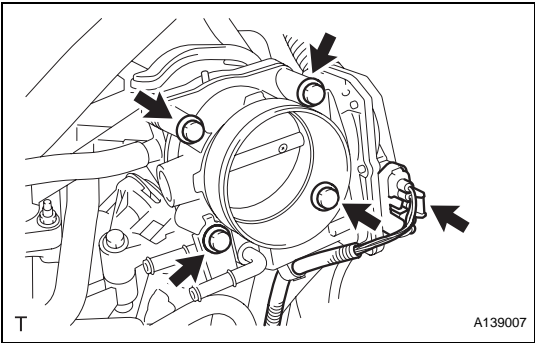
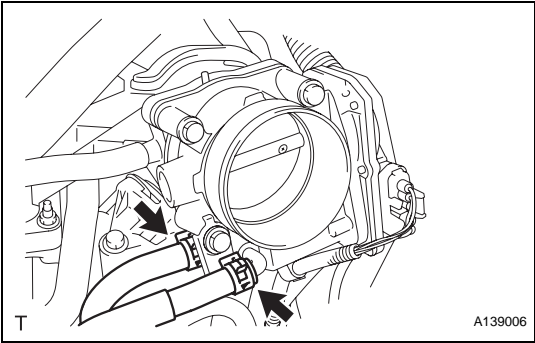
When checking the standard throttle valve opening percentage, the shift lever should be in the N position.

If the percentage is less than 60%, replace the throttle body.

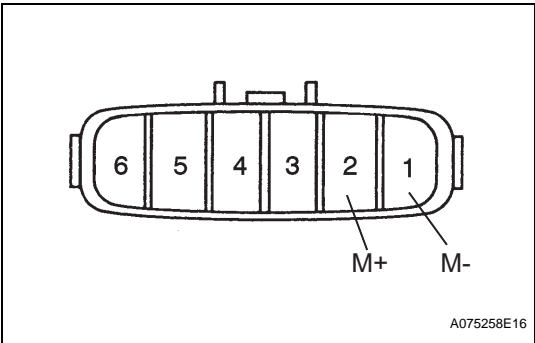
REMOVAL

- 1. DRAIN ENGINE COOLANT (See page CO-8)
- 2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
CAUTION:
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.
- 3. REMOVE V-BANK COVER SUB-ASSEMBLY (See page EM-21)
- 4. REMOVE AIR CLEANER CAP SUB-ASSEMBLY (See page EM-23)
- 5. REMOVE THROTTLE BODY
 - (a) Disconnect the 2 water by-pass hoses from the throttle body.

ES



- (b) Disconnect the control motor connector.
- (c) Remove the 4 bolts and throttle body and wire harness clamp stay.
- (d) Remove the gasket from the intake air surge tank.

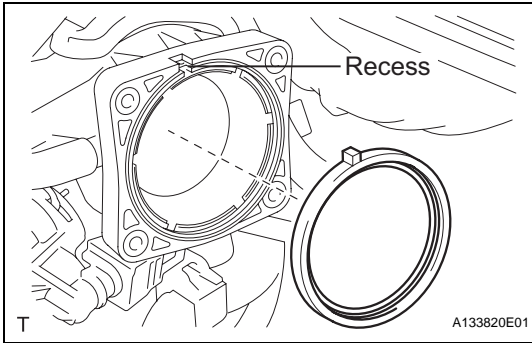


INSPECTION

- 1. INSPECT THROTTLE BODY
 - (a) Measure the resistance of the throttle control motor.
Standard resistance

Tester Connection	Condition	Specified Condition
1 (M-) - 2 (M+)	20°C (68°F)	0.3 to 100 Ω

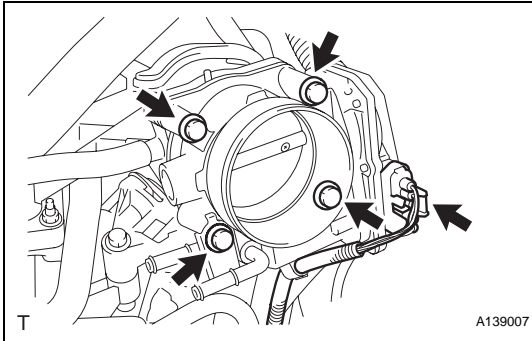
If the result is not as specified, replace the throttle body.



INSTALLATION

1. INSTALL THROTTLE BODY

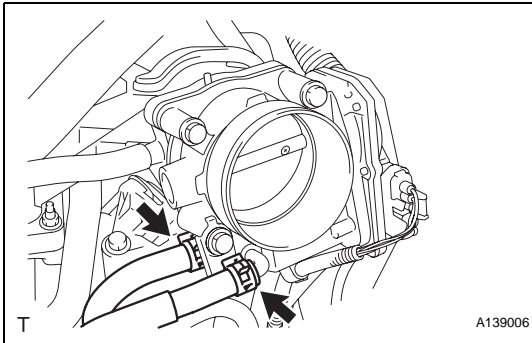
- (a) Install a new gasket to the intake air surge tank.



- (b) Install the throttle body and wire harness clamp stay to the intake air surge tank with the 4 bolts.

Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)

- (c) Connect the control motor connector.



- (d) Connect the 2 water by-pass hoses to the throttle body.

2. INSTALL AIR CLEANER CAP SUB-ASSEMBLY (See page [EM-39](#))

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

4. ADD ENGINE COOLANT (See page [CO-8](#))

5. CHECK FOR ENGINE COOLANT LEAKS (See page [CO-1](#))

6. INSTALL V-BANK COVER SUB-ASSEMBLY (See page [EM-41](#))